Rec'd PCT/PTO 29 DEC 2004

REQUEST

The undersigned requests that the present international application be processed

For recei	ving Office use only
International Application No	•
International Filing Date	10/519807
Name of receiving Office and	d "PCT International Application"

according to the Patent Cooperation Treaty. Applicant's or agent's file reference (if desired) (12 characters maximum) 1496 Box No. I TITLE OF INVENTION PROCESS FOR PREPARING 1,3-BENZODIOXOLE-2-SPIROCYCLOALKANE DERIVATIVE Box No. II APPLICANT This person is also inventor Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Telephone No. 03-3282-0036 Facsimile No. KYOWA HAKKO KOGYO CO., LTD. 03-3282-1527 Teleprinter No. 6-1, Ohtemachi 1-chome, Chiyoda-ku Tokyo 100-8185 JAPAN Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: JΡ JP This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box for the purposes of: FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only ATSUMI Toshiyuki applicant and inventor c/o Sakai Research Laboratories inventor only (If this check-box KYOWA HAKKO KOGYO CO., LTD. is marked, do not fill in below.) 1-53, Takasu-cho 1-cho, Sakai-shi Applicant's registration No. with the Office Osaka 590-8554 JAPAN State (that is, country) of nationality: State (that is, country) of residence: JP JP This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box Further applicants and/or (further) inventors are indicated on a continuation sheet. AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE Box No. IV The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: common representative Name and address: (Family name followed by given name; for a legal entity, full official designation. Telephone No. The address must include postal code and name of country.) Facsimile No. Teleprinter No. Agent's registration No. with the Office Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

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Cheet	No	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)						
If none of the following sub-boxes is used, this sheet should not be included in the request.						
Name and address: (Family name followed by given name; for a legal entity, full official designation.  The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  YANAGISAWA Arata	This person is:  applicant only					
c/o Sakai Research Laboratories	applicant and inventor					
KYOWA HAKKO KOGYO CO., LTD.	inventor only (If this check-box is marked, do not fill in below.)					
1-53, Takasu-cho 1-cho, Sakai-shi						
Osaka 590-8554 JAPAN	Applicant's registration No. with the Office					
State (that is, country) of nationality:  JP  State (that is, country)	of residence: JP					
This person is applicant for the purposes of:  all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is:					
CHUJO Iwao	applicant and inventor					
c/o Sakai Research Laboratories	inventor only (If this check-box					
KYOWA HAKKO KOGYO CO., LTD. 1-53, Takasu-cho 1-cho, Sakai-shi	is marked, do not fill in below.)					
Osaka 590-8554 JAPAN	Applicant's registration No. with the Office					
State (that is, country) of nationality:  JP  State (that is, country)	of residence: JP					
This person is applicant for the purposes of:  all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  TSUMUKI Hiroshi	This person is:  applicant only  applicant and inventor					
c/o Head Office	applicant and inventor inventor only (If this check-box					
KYOWA HAKKO KOGYO CO., LTD.	is marked, do not fill in below.)					
6-1, Ohtemachi 1-chome, Chiyoda-ku Tokyo 100-8185 JAPAN	Applicant's registration No. with the Office					
State (that is, country) of nationality:  JP  State (that is, country)	of residence: JP					
This person is applicant for the purposes of:  all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is:  applicant only					
MOHRI Shin-ichiro	X applicant and inventor					
c/o Sakai Plant	inventor only (If this check-box					
KYOWA HAKKO KOGYO CO., LTD. 1-53, Takasu-cho 1-cho, Sakai-shi	is marked, do not fill in below.)					
Osaka 590-8554 JAPAN	Applicant's registration No. with the Office					
State (that is, country) of nationality:  JP  State (that is, country)	of residence: JP					
This person is applicant for the purposes of:  all designated states except the United States of America	the United States of America only the States indicated in the Supplemental Box					
Further applicants and/or (further) inventors are indicated on another continuation sheet.						

					Sheet No3			
Box	No.	V DESIGNATION OF STATES		Λ	fark the applicable check-boxes below;	at	leas	t one must be marked.
The	foll	owing designations are hereby made t	nde	er R	ule 4.9(a):			
Reg	gion	al Patent			•			
X	AP	State which is a Contracting State	Un of t	ited he I	bia, KE Kenya, LS Lesotho, MW Republic of Tanzania, UG Uganda, Z Harare Protocol and of the PCT (if ot.	LM her	Zan kind	nbia, ZW Zimbabwe, and any other dof protection or treatment desired,
X	EA	Eurasian Patent: AM Armenia, AZ	Z A.	zerb		<b>(Z</b> )	Kaza	akhstan, MD Republic of Moldova,
X		Republic, <b>DE</b> Germany, <b>DK</b> Denmi IE Ireland, IT Italy, LU Luxembou TR Turkey, and any other State whi	ark, g, ch i	EE MC sa	n, BG Bulgaria, CH & LI Switzerland Estonia, ES Spain, FI Finland, FR I Monaco, NL Netherlands, PT Portug Contracting State of the European Pa	Frai al, teni	nce, SE :	GB United Kingdom, GR Greece, Sweden, SI Slovenia, SK Slovakia, nvention and of the PCT
X	OA	OAPI Patent: BF Burkina Faso, B GA Gabon, GN Guinea, GQ Equat TD Chad, TG Togo, and any other S	J E oria Stat	Beni: al G e wl	n, CF Central African Republic, CG uinea, GW Guinea-Bissau, ML Mali hich is a member State of OAPI and a madotted line)	Co , M Co	ngo, IR M ntra	CI Côte d'Ivoire, CM Cameroon, Auritania, NE Niger, SN Senegal, cting State of the PCT (if other kind
Nat	ion	al Patent (if other kind of protection	or i	real	ment desired, specify on dotted line):			
		United Arab Emirates				X	N7	New Zealand
					Croatia	X	OM	I Oman
		Albania	X	HU	Hungary	X	PH	Philippines
X	AM	Armenia	X	ID	Indonesia	X	PI.	Poland
	ΑT	Armenia	X	IL	Israel	$\overline{\mathbf{x}}$	PT	Portugal
X ,	ΑU	Australia	X	IN	India	×	RO	Romania
			-			_		Russian Federation
	BA	Azerbaijan	X	JP	Japan	_		
X I	BB	Barbados	X	KE	Kenya	X	SC	
<b>X</b>	BG	Bulgaria	X	KG	Kyrgyzstan	X	SD	Sudan
X I	BR	Brazil		ΚP	Democratic People's Republic			Sweden
XI I	BY	Belarus			of Korea			
	ΒZ	Belize	X	KR	Republic of Korea	X	SK	Slovakia
X (	CA	Canada	X	ΚZ	Kazakhstan	X	SL	Sierra Leone
X (	CH (	& LI Switzerland and Liechtenstein	X	LC	Saint Lucia			Tajikistan
X (	CN	China	X	LK				Turkmenistan
X (	CO	Colombia	X	LR	Liberia	_		Tunisia
XI (	CR	Costa Rica	X	LS	Lesotho	X.	TR	Turkey
		Cuba			Lithuania			Trinidad and Tobago
XI (	CZ	Czech Republic	X	LU	Luxembourg			
		Germany				X	TZ	United Republic of Tanzania
<b>X</b> 1	DK	Denmark	X	ΜA	. Morocco	X	UA	Ukraine
X 1	DM	Dominica	X	MD	Republic of Moldova	X	UG	Uganda
	DΖ	Algeria				X	US	United States of America
X ]	EC	Ecuador	X	MG	Madagascar		-	
<b>X</b>	EE	Estonia	X	MK	The former Vugoslav Republic of		117	Uzhakistan

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

..... D. Papua New Guinea .....

Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet: NI Republic of Nicaragua 🔣 PG Independent State of 🔀 SY Syrian Arab Republic

Macedonia .....

**ZW** Zimbabwe.

GB United Kingdom

GD Grenada

VC Saint Vincent and the Grenadines

01	N1 -	1	
Sheet	NO.		

Box No. VI PRIORITY	CLAIM						
The priority of the following	gearlier application(s) is herel	by claimed:					
Filing date	Number	V	Vhere earlier application	is:			
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office			
item (1) 03.07.02	Patent Application No. 2002-194273	JP					
item (2)			,	·			
item (3)							
item (4)				·			
item (5)							
Further priority claims	are indicated in the Suppleme	ental Box.					
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:    all items   item (1)   item (2)   item (3)   item (4)   item (5)   other, see Supplemental Box    Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):    Box No. VII INTERNATIONAL SEARCHING AUTHORITY							
Choice of International Seinternational search, indicate ISA /	arching Authority (ISA) (if it the Authority chosen; the two	two or more International S >-letter code may be used):	Searching Authorities are	competent to carry out the			
International Searching Auth	arlier search; reference to	that search (if an earlier se		,			
Date (day/month/year)	Numl	ber Coun	ntry (or regional Office)	•			
Box No. VIII DECLARA	TIONS			• .			
	are contained in Boxes Nos.			Number of declarations			
Box No. VIII (i)	Declaration as to the identi	ty of the inventor		:			
Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :							
Box No. VIII (iii)	Box No. VIII (iii)  Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application:						
Box No. VIII (iv)  Declaration of inventorship (only for the purposes of the designation of the United States of America):							
Box No. VIII (v)	Declaration as to non-prej	udicial disclosures or exce	eptions to lack of novelty	· :			

Sheet	Nia	5

Box No. IX CHECK LIST; LANGUAGE OF FILING							
This international application contains:  (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items					
request (including	1. X fee calculation sheet	: 1					
declaration sheets) : 5	2.  original separate power of attorney	:					
description (excluding	3. original general power of attorney	:					
sequence listings and/or tables related thereto) : 24	4. Copy of general power of attorney; reference number,						
claims : 7	if any:	:					
abstract : 1	5.  statement explaining lack of signature	:					
drawings :0	6. priority document(s) identified in Box No. VI as item(s):	:					
Sub-total number of sheets: 37 sequence listings: 0	7. translation of international application into (language):	•					
tables related thereto : 0  (for both, actual number of	8. a separate indications concerning deposited microorganism or other biological material						
sheets if filed in paper form, whether or not also filed in	9. sequence listings in computer readable form	•					
computer readable form; see (c) below)	<ul> <li>(indicate type and number of carriers)</li> <li>(i) ☐ copy submitted for the purposes of international search under</li> </ul>						
Total number of sheets : 37	Rule 13ter only (and not as part of the international applicatio  (ii) (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the						
(b) only in computer readable form (Section 801(a)(i))	purposes of international search under Rule 13ter	:					
(i) ☐ sequence listings (ii) ☐ tables related thereto	(iii) together with relevant statement as to the identity of the copy copies with the sequence listings mentioned in left column	or :					
(c) also in computer readable form (Section 801(a)(ii))	10. tables in computer readable form related to sequence listings (indicate type and number of carriers)						
(i) sequence listings	(i) copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the internation	al					
(ii) ☐ tables related thereto  Type and number of carriers (diskette,	application)	:					
CD-ROM, CD-R or other) on which are contained the	(ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater)	e .					
sequence listings:	(iii) I together with relevant statement as to the identity of the copy						
tables related thereto:	copies with the tables mentioned in left column	:					
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11.  other (specify):	, <b>:</b>					
Figure of the drawings which should accompany the abstract:  Language of filing of the international application:  Japanese							
Box No. X SIGNATURE OF APPLICAN  Next to each signature, indicate the name of the person signature.	T, AGENT OR COMMON REPRESENTATIVE  ming and the capacity in which the person signs (if such capacity is not obvious from readin	a the reasest)					
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).  KYOWA HAKKO KOGYO CO., LTD. YANAGISAWA Arata (Sealed) TSUMUKI Hiroshi (Sealed)  (Sealed)							
ATSUMI Toshiyuki (Seald)	CHUJO Iwao (Sealed) MOHRI Shin-ichiro (S	Sealed)					
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Date of actual receipt of the purported		wings:					
international application:	2. Dra	•					
	re	ceived:					
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:							
4. Date of timely receipt of the required corrections under PCT Article 11(2):							
5. International Searching Authority (if two or more are competent): ISA /  6. Transmittal of search copy delayed until search fee is paid							
For International Bureau use only							
Date of receipt of the record copy by the International Bureau:							